BRUHAT BANGALORE MAHANAGARA PALIKE

Project: Construction and Developments of Toilets in Ward No 06

Est Cost: 40.0Lakh

Sl. No.	Description of work	Unit	No.	Length	Breadth	Depth	Quantity	Rate in Rs.	Amount in Rs.
				m	m	m			
1	KSRB 2-2.1 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (Page no -5, item no - 2.3)								
	Toilet								
	Footings	2	10	1.40	1.40	1.50	58.80		
	Foundation	2	1	34.40	1.10	1.30	98.38		
	Total Qty	**Cum**					**157.18**	**204.12**	**32084.40**
	Basic Rate	**189**							
	Area weightage 8%	**15.12**							
	Total Rate	**204.12**							
2	KSRB 2.14-1: Extra for additional lift of 1.5m. or part thereof for excavation In loose / soft or hard soil including cost of materials, labour complete as per specifications. (Page no -7, item no - 2.21)								
	Toilet								
	Footings	2	10	1.40	1.40	0.80	31.36		
	Total Qty	**Cum**					**31.36**	**218.16**	**6841.50**
	Basic Rate	**202**							
	Area weightage 8%	**16.16**							
	Total Rate	**218.16**							
3	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 465 cum machine mixed, machine mixed,concrete laid in layers not exceeding 15 cms, thick well compacted, in foundation and plinth, including cost of all material, labour HOM Machinery curing complete as per specification,(Page. No. 12 Item No. 4.2								
	Toilet								
	Footings	2	10	1.40	1.40	0.15	5.88		
	Plinth Beam	2	1	65.80	0.20	0.15	3.95		
	Foundation	2	1	34.40	1.10	0.15	11.35		
	Total Qty	**Cum**					**21.18**	**5449.68**	**115424.22**
	Basic Rate	**5046**							
	Area weightage 8%	**403.68**							
	Total Rate	**5449.68**							

4	KSRB 5.1-3 : Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:6 (uncoursed), bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.12(Page. No. 22 Item No.5.3)								
	Toilet								
	Foundation	2	1	34.40	0.90	0.45	27.86		
		2	1	34.40	0.60	0.45	18.58		
		2	1	34.40	0.45	0.23	7.12		
	Total Qty	**Cum**					**53.56**	**3508.92**	**187940.56**
	Basic Rate	**3249**							
	Area weightage 8%	**259.92**							
	Total Rate	**3508.92**							
5	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13(Page. No. 23 Item No. 5.9								
	Toilet								
	Foundation	2	1	34.40	0.45	0.23	7.12		
	Total Qty	**Cum**					**7.12**	**5405.40**	**38490.77**
	Basic Rate	**5005**							
	Area weightage 8%	**400.40**							
	Total Rate	**5405.40**							
6	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.								
	Toilet								
	Pointing	2	2	34.40		0.45	61.92		
		2	2	34.40		0.45	61.92		
		2	2	34.40		0.45	61.92		
	Total Qty	**Cum**					**185.76**	**104.76**	**19460.22**
	Basic Rate	**97**							
	Area weightage 8%	**7.76**							
	Total Rate	**104.76**							
7	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2(Page No : 15, item No : 4.28)								
	Toilet								
	Footings	2	10	4.80		0.45	43.20		
	Total Qty	**Sqm**					**43.20**	**249.48**	**10777.54**
	Basic Rate	**231**							
	Area weightage 8%	**18.48**							
	Total Rate	**249.48**							

8	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (Page No : 16, item No : 4.32)								
	Toilet								
	For Ground Floor								
	Columns	2	10	1.00		5.50	110.00		
	Total Qty	**Sqm**					**110.00**	**395.28**	**43480.80**
	Basic Rate	**366**							
	Area weightage 8%	**29.28**							
	Total Rate	**395.28**							
9	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(Page No : 16, item No : 4.31)								
	Toilet								
	For Ground Floor								
	Plinth Beam	2	2	65.80		0.45	118.44		
	Total Qty	**Sqm**					**118.44**	**316.44**	**37479.15**
	Basic Rate	**293**							
	Area weightage 8%	**23.44**							
	Total Rate	**316.44**							
10	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitonsupto 3.50m from ground level. Specification No. KBS 4.6.2(Page No : 15, item No : 4.18)								
	Toilet								
	For Ground Floor								
	Roof Slab	2	1	8.00	6.60		105.60		
		2	1	8.00	0.90		14.40		
	Total Qty	**Sqm**					**105.60**	**338.04**	**35697.02**
	Basic Rate	**313**							
	Area weightage 8%	**25.04**							
	Total Rate	**338.04**							
11	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2(Page No : 16, item No : 4.34)								
	Toilet								
	For Ground Floor								
	Lintel	2	2	35.40		0.20	28.32		
	Roof Beam	2	2	50.00		0.350	70.00		
	Total Qty	**Sqm**					**98.32**	**276.48**	**27183.51**
	Basic Rate	**256**							
	Area weightage 8%	**20.48**							

	Total Rate	**276.48**							
12	KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 (Page No : 13, item No : 4.11)								
	Toilet								
	For Ground Floor								
	Footings	2	10	1.20	1.20	0.45	12.96		
	Columns	2	10	0.20	0.30	5.50	6.60		
	Plinth Beam	2	1	65.80	0.20	0.45	11.84		
	Total Qty	**Cum**					**31.40**	**6491.88**	**203871.00**
	Basic Rate	**6011**							
	Area weightage 8%	**480.88**							
	Total Rate	**6491.88**							
13	KSRB 4.2.8: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintles, and beams retaining walls, return walls, walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6. (P. No. 14/ I.No. 4.13								
	Toilet								
	For Ground Floor								
	Lintel	2	1	35.40	0.20	0.20	2.83		
	Roof Beam	2	1	50.00	0.20	0.20	4.00		
	Roof Slab	2	1	8.00	6.60	0.15	15.84		
		2	1	8.00	0.90	0.15	2.16		
	Total Qty	**Cum**					**24.83**	**6650.64**	**165148.69**
	Basic Rate	**6158**							
	Area weightage 8%	**492.64**							
	Total Rate	**6650.64**							

14	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - TMT bars Fe 500 (Page No : 17, item No : 4.46.2)									
	Toilet									
	For Ground Floor									
	120kg/cum for Footings			12.96	120.00		1555.20			
	180kg/cum for Columns			6.60	180.00		1188.00			
	100kg/cum for Beams			4.00	100.00		400.00			
	80kg/cum for Slabs			15.84	80.00		1267.20			
	60kg/cum for Plinth, Lintel and Chajja			14.68	60.00		880.56			
							5290.96			
	Total Qty	**Tonne**					**5.29**	**65455.56**	**346322.75**	
	Basic Rate	**60607**								
	Area weightage 8%	**4848.56**								
	Total Rate	**65455.56**								
15	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto SO m. and lift upto 1.S m. including cost of all labour complete as per specifications. specification. No. KBS(Page No : 6, item No : 2.10)									
	Toilet									
	For Ground Floor									
	Around Footings	2	10	1.40	1.40	2.40	94.08			
	Total Qty	**Cum**					**94.08**	**137.16**	**12904.01**	
	Basic Rate	**127**								
	Area weightage 8%	**10.16**								
	Total Rate	**137.16**								
16	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4(Page No :25, item No : 5.27.1)									
	Toilet									
	For Ground Floor									
	Walls	2	1	53.60		2.65	284.08			
	Deduction for openings									
	Door D1	2	-1	0.90		2.10	-3.78			
	Door D2	2	-7	0.75		1.20	-12.60			
	Ventilators	2	-13	0.75		0.60	-11.70			
	Total Qty	**Sqm**					**256.00**	**1011.96**	**259061.76**	
	Basic Rate	**937**								
	Area weightage 8%	**74.96**								

	Total Rate	**1011.96**							
17	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4(Page No :25, item No : 5.27.2)								
	For Ground Floor								
	Toilet Block	2	1	17.60		2.65	93.28		
	Parappet Wall	2	1	31.00		1.20	74.40		
	Deduction for openings								
	Door D2	2	-1	0.75		2.10	-3.15		
	Total Qty	**Sqm**					**164.53**	**979.56**	**161167.01**
	Basic Rate	**907**							
	Area weightage 8%	**72.56**							
	Total Rate	**979.56**							
18	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:6, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(Page No :114, item No : 15.20)								
	Toilet								
	External Walls	2	1	29.20		3.15	183.96		
	Parappet Wall	2	1	31.00		2.50	155.00		
	For Extra works						27.12		
	Deduction for openings								
	Door D1	1	-1	0.90		2.10	-1.89		
	Ventilators	1	-13	0.75		0.6	-5.85		
	Total Qty	**Sqm**					**358.34**	**224.64**	**80496.78**
	Basic Rate	**208**							
	Area weightage 8%	**16.64**							
	Total Rate	**224.64**							
19	KSRB 15.3.2 Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications..(Page No.113, Item No.15.10)								
	Toilet								
	Internal Plastering	2	1	86.70		3.00	520.20		
	Deduction for openings								
	Door D2	1	-8	0.75		2.10	-12.60		
	Ventilators	1	-13	0.75		0.6	-5.85		
	Total Qty	**Sqm**					**501.75**	**178.20**	**89411.85**
	Basic Rate	**165**							
	Area weightage 8%	**13.20**							
	Total Rate	**178.20**							

20	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering. : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications..(Page No.114, Item No.15.21)								
	Toilet								
	For Ground Floor								
	Ceiling	2	1	8.00	6.60		105.60		
		2	1	8.00	0.90		14.40		
	Repairs of Toilet		2	3.40		3.40	23.12		
	For Extra works						11.45		
	Total Qty	**Sqm**					**154.57**	**208.44**	**32218.49**
	Basic Rate	**193**							
	Area weightage 8%	**15.44**							
	Total Rate	**208.44**							
21	KSRB 15.10.2 Providing white washing for every one additional coat with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications. (Page No. 115, Item No. 15.39)								
	Same As Internal and Ceiling Plastering Qnty								
	Total Qty	**Sqm**					**501.75**	**4.32**	**2167.56**
	Basic Rate	**4**							
	Area weightage 8%	**0.32**							
	Total Rate	**4.32**							
22	KSRB 15.10.4 Providing white washing to ceiling and / or sloping roof surface with additional one coat with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications.(Page No. 115, Item No. 15.41)								
	Same As Internal and Ceiling Plastering Qnty								
	Total Qty	**Sqm**					**154.57**	**4.32**	**667.74**
	Basic Rate	**4**							
	Area weightage 8%	**0.32**							
	Total Rate	**4.32**							
23	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. (P. No. 118, I.No. 15.53.2).								
	Same As External Plastering Qnty								
	Repairs of Toilet		2	16.00		3.00	96.00		
	Total Qty	**Sqm**					**454.34**	**90.72**	**41217.43**
	Basic Rate	**84**							
	Area weightage 8%	**6.72**							
	Total Rate	**90.72**							

24	Providing and applying two coats with Plastic emulsion paint of approved brand wall surface to a give an even approved shade after throuughly brushing the surface,free from mortar drops and other foreign matter, including priming , including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications,with primer. (Page No : 117, item No :15.51.2)For internal walls.								
	Same As Internal Plastering Qnty								
	Total Qty	**Sqm**					**501.75**	**97.20**	**48770.10**
	Basic Rate	**90**							
	Area weightage 8%	**7.20**							
	Total Rate	**97.20**							
25	Providing and applying two coats with Plastic emulsion paint of approved brand wall surface to a give an even approved shade after throuughly brushing the surface,free from mortar drops and other foreign matter, including priming , including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications,with primer. (Page No : 117, item No :15.51. 2 & 3) for ceiling								
	Same As Ceiling Plastering Qnty								
	Total Qty	**Sqm**					**154.57**	**101.52**	**15691.91**
	Basic Rate	**94**							
	Area weightage 8%	**7.52**							
	Total Rate	**101.52**							
26	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.6)								
	Toilet								
	Flooring	2	1	7.60	6.20	0.15	14.14		
	Total Qty	**Sqm**					**14.14**	**5876.28**	**83067.09**
	Basic Rate	**5441**							
	Area weightage 8%	**435.28**							
	Total Rate	**5876.28**							
27	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. - for Ceramic Tiles 400 x 400mm on a bed of 20mm thick (Page No : 106, item No :14.36.3)								
	Toilet								
	Flooring	2	1	7.60	6.20		94.24		
	repairs of toilets	2	1	3.40	3.40		23.12		

	Total Qty	**Sqm**					**117.36**	**1272.24**	**149310.09**
	Basic Rate	**1178**							
	Area weightage 8%	**94.24**							
	Total Rate	**1272.24**							
28	KSRB 9.4-3 : Providing Mathi / Nandi wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 (Page No : 51, item No :9.12)								
	Toilet	2	2	6.40	0.10	0.10	0.26		
	Total Qty	**Cum**					**0.26**	**87255.36**	**22337.37**
	Basic Rate	**80792**							
	Area weightage 8%	**6463.36**							
	Total Rate	**87255.36**							
29	KSRB 9.5-3 : Providing and fixing in position fully panelled Mathi/Nandi wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 (Page No : 51, item No :9.16)								
	Toilet	2	2	0.90	2.10		7.56		
	Total Qty	**Sqm**					**7.56**	**4239.00**	**32046.84**
	Basic Rate	**3925**							
	Area weightage 8%	**314.00**							
	Total Rate	**4239.00**							
30	Providing and fixing factory made single leaft rigid GRP Sandwich composite door shutter of 32mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and on layer of 45 gsm E-Glass Chopped strand Mat (CSM), impregnated with orthopthalic polyster resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 29mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not less than 28mmx32mm and also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc, shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the Salwood reinforcement and the skins. The material and process for manufacturing the door shutters shall confirm to RV/TIFAC Composites Design centre Standards and specifications and the door shutters tested in confiramation to IS 4020-1994. The finish of shutter will be plain colour White/Ivory/Beige/Light Grey or any other colour using high quality pigments. Exclusing cost of fixtures and inclusive of supply of shutters to respective work spot. (Page No : 58, item No :9.93)								
	Toilet								
	Door D2	2	8	0.75		2.10	25.20		
	Total Qty	**Sqm**					**25.20**	**3456.00**	**87091.20**
	Basic Rate	**3200**							
	Area weightage 8%	**256.00**							
	Total Rate	**3456.00**							

31	KSRB 7.9:Providing and fixing M.S.gill work for windows and ventilators using M.S.flats, or M.S. square rods, or combination of M.S.flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications. Specification No. KBS 7.12 . (Page No : 32, item No :7.9)								
	Toilet								
	Ventilators	2	13	0.75		0.60	11.70		
							11.70		
	at 21kgs/sqm						245.70		
	Total Qty	**Kgs**					**245.70**	**84.24**	**20697.77**
	Basic Rate	**78**							
	Area weightage 8%	**6.24**							
	Total Rate	**84.24**							
32	KSRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS using aluminium section anodized to 12 - 15 microns. (P.No. 301/ I. No. 7.10.1								
	Toilet								
	Ventilators	2	13	0.75		0.60	11.70		
	Total Qty	**Sqm**					11.70	**4123.44**	**48244.25**
	Basic rate	**3818**							
	Basic Rate	**3818**							
	Area weightage 8%	**305.44**							
	Total Rate	**4123.44**							
33	KSRB 15-17.4 : Applying priming coat over new wood surface and / or wood based surface, after brushing with ready mix enamel priming paint including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.(Page. No. 118 Item No. 15.58)								
	Same as Door Qnty								
	Total Qty	**Sqm**					**7.56**	**33.48**	**253.11**
	Basic Rate	**31**							
	Area weightage 8%	**2.48**							
	Total Rate	**33.48**							

34	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.(Page. No. 118 Item No. 15.60.1)								
	Same as priming coat qnty for Door								
	Total Qty	**Sqm**							
	Basic Rate	**84**					**7.56**	**90.72**	**685.84**
	Area weightage 8%	**6.72**							
	Total Rate	**90.72**							
35	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locl<ing arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1 000 litre capacity) Specification No.KBS 13.22 (P.No.94, I.No.13.78 of PW, P&IWTD S.R 2016-17)								
		2	6				12.00		
	Total Qty	**each**					12.00	**9144.36**	**109732.32**
	Basic Rate	**8467**							
	Area weightage 8%	**677.36**							
	Total Rate	**9144.36**							
36	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes. (P.No.96, I.No. 13.86.2 of PWD SR 2016-17)								
	20mm Nominal OD Pipes	2	50				100.00		
	Repairs of Toilet	2	20	--		--	20.00		
	Total Qty	**m**					**120.00**	**226.80**	**27216.00**
	Basic Rate	**210**							
	Area weightage 8%	**16.80**							
	Total Rate	**226.80**							
37	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes(P.No.96, I.No. 13.86.3 of PWD SR 2016-17)								

	25mm nominal OD pipes	2	50	--	--	--			
	Repairs of Toilet	2	15	--		--	100.00		
	Total Qty	**m**					15.00		
	Basic Rate	**250**					**115.00**	**270.00**	**31050.00**
	Area weightage 8%	**20.00**							
	Total Rate	**270.00**							
38	KSRB13-8.5 : Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kgf/sq.cm working pressure 110mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9(P.No.94, I.No.13.70.4 of PW, P&IWTD S.R 2016-17)								
	110mm Outer dia	2	45	--	--	--	45.00		
	Repairs of Toilet	2	15	--		--	15.00		
	Total Qty	**m**					**60.00**	**384.48**	**23068.80**
	Basic Rate	**356**							
	Area weightage 8%	**28.48**							
	Total Rate	**384.48**							
39	KSRB 11-15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications. (P.No.82, I.No. 12.41 of PWD SR 2016-17)								
		2	2	--	--	--	4.00		
	Total Qty	**unit**					**4.00**	**1274.40**	**5097.60**
	Basic Rate	**1180**							
	Area weightage 8%	**94.40**							
	Total Rate	**1274.40**							
40	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia. (P.No. 88, I.No. 12.111 of PWD SR 2016-17)								
		2	14	--	--	--	28.00		
	Total Qty	**each**					**28.00**	**172.80**	**4838.40**
	Basic Rate	**160**							
	Area weightage 8%	**12.80**							
	Total Rate	**172.80**							
41	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms (P.No. 88, I.No. 12.113.1 of PWD SR 2016-17)								
		2	14	--	--	--	28.00		
	Total Qty	**each**					**28.00**	**270.00**	**7560.00**
	Basic Rate	**250**							
	Area weightage 8%	**20.00**							
	Total Rate	**270.00**							

42	KSRB13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (P.No. 91, I.No. 13.23 of PWD SR 2016-17)								
		2	12	--	--	--	24.00		
	Total Qty	**each**					**24.00**	**262.44**	**6298.56**
	Basic Rate	**243.00**							
	Area weightage 8%	**19.44**							
	Total Rate	**262.44**							
43	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. (P.No.91/ I.No. 13.34 of CSR 2016-17)								
		2	12	--	--	--	24.00		
	Total Qty	**each**					**24.00**	**648.00**	**15552.00**
	Basic Rate	**600**							
	Area weightage 8%	**48.00**							
	Total Rate	**648.00**							
44	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. (P.No.91/ I.No. 13.33 of CSR 2016-17)								
		2	6	--	--	--	12.00		
	Total Qty	**each**					**12.00**	**441.72**	**5300.64**
	Basic Rate	**409**							
	Area weightage 8%	**32.72**							
	Total Rate	**441.72**							
45	Constructing brick masonry inspection chamber 450x450mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 450x450mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 450x450mm (P.No. 73/ I.No.11.50.2 of PWD SR 2016-17)								
		2	4	--	--	--	8.00		
	Total Qty	**Nos**					**8.00**	**5771.52**	**46172.16**

46	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No. 77, I.No.12.2 of PWD SR 2015-16).(P.No.77 I.No.12.2 of CSR 2016-17)								
	For New Toilets	2	4	--	--	--	8.00		
	For Repair Works	2	2	--	--	--	4.00		
	Total Qty	**Each**					**12.00**	**4682.88**	**56194.56**
	Basic Rate	**4336**							
	Area weightage 8%	**346.88**							
	Total Rate	**4682.88**							
47	KSRB 11-5 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No. 77, I.No.12.5 of PWD SR 2015-16).(P.No.77 I.No.12.2 of CSR 2016-17)								
		2	6	--	--	--	12.00		
	Total Qty	**Each**					**12.00**	**5540.40**	**66484.80**
	Basic Rate	**5130**							
	Area weightage 8%	**410.40**							
	Total Rate	**5540.40**							
48	KSRB 11-7.4 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm in the range of four with 10 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No. 77, I.No.12.2 of PWD SR 2015-16).(P.No.77 I.No.12.10 of CSR 2016-17)								
		2	4	--	--	--	8.00		
		2	2	--	--	--	4.00		
	Total Qty	**Each**					**8.00**	**7354.80**	**58838.40**
	Basic Rate	**6810**							
	Area weightage 8%	**544.80**							
	Total Rate	**7354.80**							
49	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (P.No.80 I.No.12.23 of CSR 2016-17)								

		2	2	--	--	--	4.00		
		2	2	--	--	--	4.00		
	Total Qty	**unit**					**8.00**	**4196.88**	**33575.04**
	Basic Rate	**3886**							
	Area weightage 8%	**310.88**							
	Total Rate	**4196.88**							
	Existing Toilets Maintainance and Repair Works								
50	KSRB 24-14 : Removing the old paint from steel and / or other metal surface with flame cleaning and making surface even including cost of material, labour, complete as per specifications. Specification No.KBS								
	For Existing toilet doors	15.00	0.90			2.80	37.80		
	Ventilators	16.00	0.60			0.60	5.76		
	Total Qty	**sqm**					43.56	66.96	2916.78
	Basic Rate	**62**							
	Area weightage 8%	**4.96**							
	Total Rate	**66.96**							
51	KSRB 24-44 : Repairs to plaster in patches of 2.5 sqm and less in walls, ceilings 10 to 20mm thick in cement mortar 1:3 including cutting the patches in proper shape and replastering the surface of the wall including disposal of rubbish with a lead of 50m including curing cost of materials, labour, complete as per specifications. Specification No.KBS 24.2.1 (P.No. 131, l.No. 16.38 of SR 2016-17).								
	For Existing toilet walls	5.00	4.50			2.80	63.00		
		5.00	3.60			2.80	50.40		
		6.00	1.60			2.80	26.88		
		6.00	1.60			2.80	26.88		
	Total Qty	**sqm**					167.16	276.48	46216.40
	Basic Rate	**256**							
	Area weightage 8%	**20.48**							
	Total Rate	**276.48**							
52	Removing of existing old or broken Water closet Indian / Eurpoean and disposing it with all cost and conveyance labour for all items of work, HOM of equipment with all lead and lift, loading and unloading, transportation charges and all other incidental charges etc., complete as per specification and directions of the Engineer-in-charge of the work.								
	For Existing toilet	4.00					4.00		
		4.00					4.00		
	Total Qty	**Each**					8.00	201.96	1615.68
	Basic Rate	**187**							
	Area weightage 8%	**14.96**							
	Total Rate	**201.96**							

ADMINISTRATIVE APPROVAL
Accorded For Rs. Forty lakhs only
Head of A/c. P-3110.
Div. Ref. No. 197 Date. 12/02/18.
AE EE(BTP)

53	Removing of existing old Sanitary and plumbing pipelines, stacking and disposing it with all cost and conveyance labour for all items of equipment with all lead and lift, loading and unloading, transportation charges and all other incidental charges etc., complete as per specification and directions of the Engineer-in-charge of the work..								
	For Existing toilet	15.00					15.00		
		15.00					15.00		
	Total Qty	**Rmt**					30.00	66.96	2008.80
	Basic Rate	**62**							
	Area weightage 8%	**4.96**							
	Total Rate	**66.96**							
54	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. (Page No. 120 Item No. 15.74 of SR 2015-16).								
	For Existing toilet doors	12.00	0.90			2.80	30.24		
	ventilators	11.00	0.60			0.60	3.96		
	Total Qty	**sqm**					34.20	88.56	3028.75
	Basic Rate	**82**							
	Area weightage 8%	**6.56**							
	Total Rate	**88.56**							
55	Providing and fixing of clay tiles for cladding tiles of size 230x75mm x 8mm thick on 12mm thick cement mortar 1:3 & jointed with Adhesive / cement slurry over rough plaster surface excluding cost of rough plasterd surface and the surface is painted with red apex paint and black apex paint into the groves.								
	For new Toilet	3.00	35.00			1.85	194.25		
	For repairs of toilets	3.00	13.00			1.85	72.15		
	internal walls of toilet	8.00	6.50			1.85	96.20		
	Total Qty	**sqm**					362.60	1782.00	646153.20
	Basic Rate	**1650**							
	Area weightage 8%	**132.00**							
	Total Rate	**1782.00**							
								TOTAL :	3656629.22
56							Cost towardsElectrical Works		300000.00
57							Cost towards PMC / Third Party inspection LS		36567.00
								Basic Rate	3993196.22
58								Miscellaneous and rounding off	6803.78
								Total	4000000.00

Technical Sanction
Accorded For Rs. Forty lakhs only
Head of A/C. P-3110
CER NO: TS/1698/17-18 Dt: 27.02.18
TA CE (YNK)

Certificate.

1 The rates adopted based on the PWD SR, Bangalore circle for year 2016-17.
2 The provisions made in the estimate are necessary and essential.
3 The workspot was inspected and work is found to be necessary.
4 The area comes within the Bruhat Bangalore Mahanagara Palike limits.

Assistant Executive Engineer
ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-26

Executive Engineer